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Substitute for form 1449A/PTO
(Modified)OCT 20 2003
OPT INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Sheet 1 of 1

Complete if Known	
Application Number	09/189,543
Filing Date	November 10, 1998
First Named Inventor	CHEE ET AL.
Group Art Unit	1631
Examiner Name	MARSCHEL, A.
Attorney Docket Number	A-66828-1/RMS/DCF/KJC

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
M	A1	6,210,910	04/2001	Walt et al.	
M	A2	6,620,584	09/2003	Chee et al.	
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
	A9				

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	B1					
	B2					
	B3					
	B4					
	B5					

OTHER PRIOR ART NON-PATENT

M	C1	Venton, D. et al., "Screening combinatorial libraries," Chemometrics and Intelligent Laboratory Systems, NL, Elsevier Science Publishers, Amsterdam, 48(2) 131-150 (1999)		
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Examiner Signature *Austin Marschel* Date Considered 1-9-04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English Language Translation is attached.

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Substitute PTO/SB/8A (08-00)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Sheet

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Examiner Name	Marschel, A.

Attorney Docket Number A-66828-1/RMS/DCF/KJC

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A/M	A1	3,712,535	01/1973	Genese, J.N., et al.	
	A2	3,748,975	07/1973	Tarabocchia	
	A3	4,125,314	11/1978	Haskell et al.	
	A4	4,224,198	09/1980	Rembaum et al.	
	A5	4,448,485	05/1984	Bergman et al.	
	A6	4,582,789	05/1986	Sheldon, III et al.	
	A7	4,687,732	08/1987	Ward et al.	
	A8	4,729,949	03/1988	Weinreb et al.	
	A9	4,772,540	09/1988	Deutsch et al.	
	A10	4,842,783	06/1989	Blaylock	
	A11	4,868,130	09/1989	Hargreaves, W.R.	
	A12	4,876,187	10/1989	Duck et al.	
	A13	4,879,097	11/1989	Whitehead, T.P., et al.	
	A14	4,894,343	01/1990	Tanaka et al.	
	A15	4,895,805	01/1990	Sato et al.	
	A16	4,981,783	01/1991	Augenlicht	
	A17	5,015,843	05/1991	Seitz et al.	
	A18	5,019,350	05/1991	Rhum et al.	
	A19	5,026,599	06/1991	Koskenmaki	
	A20	5,061,336	10/1991	Soane	
✓	A21	5,071,531	12/1991	Soane	

Examiner
Signature

Aldrin Marschel

Date
Considered

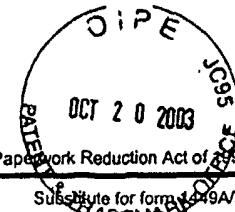
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JM	A22	5,110,745	05/1992	Kricka et al.	
	A23	5,126,022	06/1992	Soane et al.	
	A24	5,135,627	08/1992	Soane	
	A25	5,176,881	01/1993	Sepaniak et al.	
	A26	5,177,012	01/1993	Kim et al.	
	A27	5,185,178	02/1993	Kosenmaki	
	A28	5,185,243	02/1993	Ullman et al.	
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	A31	5,304,487	04/1994	Wilding et al.	
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	A43	5,589,351	12/1996	Harootunian	
✓	A44	5,593,838	01/1997	Zanzucchi et al.	

Examiner Signature

Adrian Marschel

Date Considered

1-9-04

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A/M	A45	5,595,915	01/1997	Geysen	
	A46	5,603,351	02/1997	Cherukuri et al.	
	A47	5,610,287	03/1997	Nikiforov et al.	
	A48	5,631,170	05/1997	Attridge	
	A49	5,631,337	05/1997	Sassi et al.	
	A50	5,632,876	05/1997	Zanzucchi et al.	
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	A52	5,635,358	06/1997	Wilding et al.	
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	A55	5,643,738	07/1997	Zanzucchi et al.	
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	A66	5,747,169	05/1998	Fan et al.	
	A67	5,747,180	05/1998	Miller et al.	
	A68	5,750,015	05/1998	Soane et al.	
↓	A69	5,755,942	05/1998	Zanzucchi et al.	

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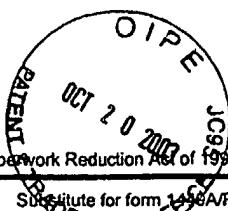
TECH CENTER 1600/2900

Examiner Signature	<i>Adam Marschel</i>	Date Considered	1-9-04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Application Number	09/189,543
Filing Date	November 10, 1998
First Named Inventor	Chee, M.S.
Group Art Unit	1631
Examiner Name	Marschel, A.
Attorney Docket Number	A-66828-1/RMS/DCF/KJC

U.S. PATENT DOCUMENTS

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AM	A70	5,770,029	06/1998	Nelson et al.	
	A71	5,770,157	06/1998	Cargill et al.	
	A72	5,795,716	08/1998	Chee	
	A73	5,637,196	11/1998	Pinkel et al.	
	A74	5,843,655	12/1998	McGall	
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	A82	5,881,200	03/1999	Burt	
	A83	5,888,885	03/1999	Xie	
	A84	5,922,617	07/1999	Wang et al.	
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	A89	6,008,892	12/1999	Kain et al.	
	A90	6,037,186	03/2000	Stimpson	
	A91	6,039,894	03/2000	Sanjurjo et al.	

Examiner Signature	Andrea Marschel	Date Considered	1-9-04
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AM	A92	6,045,760	04/2000	Aizawa et al.	
	A93	6,048,515	04/2000	Kresse et al.	
	A94	6,048,616	04/2000	Gallagher et al.	
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	A105	6,121,075	09/2000	Yamashita	
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	A111	6,261,782	07/2001	Lizardi et al.	
	A112	6,266,459	07/2001	Walt, D.R. and K.L. Michael	
AM	A113	6,268,147 B1	07/2001	Beattie et al.	

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AM	A114	6,274,323 B1	08/2001	Bruchez et al.	
	A115	6,280,935	08/2001	Macevicz	
	A116	6,284,456	09/2001	Jones et al.	
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	A120	6,327,410 B1	12/2001	Walt, D.R. and K.L. Michael	
	A121	6,355,431 B1	03/2002	Chee et al.	
	A122	6,377,721	04/2002	Walt, D.R., and L.C. Taylor	
	A123	6,396,995	05/2002	Stuelpnagel, E., et al.	
	A124	6,406,845	06/2002	Walt, D.R., and B.G. Healey	
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	A127	20010029049	10/2001	Walt, D., and T. Dickinson	
	A128	20020001801	01/2002	Fan, J.B. and M.S. Chee	
	A129	20020006617	01/2002	Fan, J.B. and M.S. Chee	
	A130	20020051971	05/2002	Stuelpnagel, J.R., et al.	
	A131	20020122612	09/2002	Walt, D.R., and K.L. Michael	
	A132	20020132221	09/2002	Chee, M.S., et al.	
	A133	20020132241	09/2002	Fan, J.B., et al.	
	A134	20020150909	10/2002	Stuelpnagel, et al.	

Examiner Signature

Aldrin Monahan

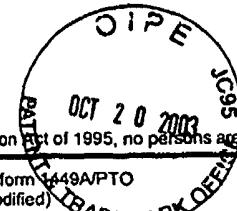
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AM	A135	20020172716	11/2002	Walt, D.R., et al.	
	A136	20020177141	11/2002	Chee, M., and K. Gunderson	
	A137	20021087515	12/2002	Chee, M.S., et al.	
	A138	20030003490	01/2003	Fan, J.B., and M.S. Chee	
	A139	20030016897	01/2003	Walt, D.R., and K.L. Michael	
✓	A140	20030027126	02/2003	Walt, D.R., and K.L. Michael	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
AM	B1	JP 01283412	09/1991	Brother Ind Ltd, et al.	(abstract only)	
	B2	UK 2294319A	04/1996	Cambridge Imaging Limited		
	B3	UK 2315130	01/1998	Cambridge Imaging Ltd.		
✓	B4	UK 2315131	01/1998	Cambridge Imaging Ltd.		
✓	B5	EP 2741357	06/1997	CORNING INC.		
AM	B6	EP 0539888A1	05/1993	Shimadzu Corporation		
	B7	EP 0572157A1	12/1993	Puritan-Bennett Corporation		
	B8	EP 0799897	10/1997	Affymetrix, Inc.		
	B9	WO 92/09300	06/1992	Iterex Pharmaceuticals LTD		
	B10	WO 94/02515	02/1994	Bunsen Rush Laboratories		
	B11	WO 94/12863	06/1994	Trustees of Tufts College		
✓	B12	WO 95/16918	06/1995	Combichem Inc.		

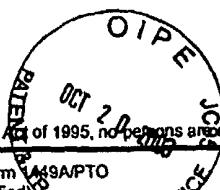
Examiner Signature	Adrian Marschel	Date Considered	1-9-04
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English Language Translation is attached.

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Substitute for form 149A/PTO (Modified)				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/189,543
(use as many sheets as necessary)				Filing Date	November 10, 1998
Sheet	8	of	15	First Named Inventor	Chee, M.S.
				Group Art Unit	1631
				Examiner Name	Marschel, A.
				Attorney Docket Number	A-66828-1/RMS/DCF/KJC

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
AM	B13	WO 95/21271	08/1995	Molecular Tool Inc.		
	B14	WO 95/33070A1	12/1995	New York Medical College		
	B15	WO 96/04547	02/1996	Lockheed Martin Energy Systems, Inc.		
	B16	WO 96/11878	04/1996	Regents of the Univ. of CA		
	B17	WO 96/15271	05/1996	Abbott Laboratories		
	B18	WO 96/36436	11/1996	IRORI		
	B19	WO 96/40901A1	12/1996	Gen-Probe Inc.		
	B20	WO 97/12030	04/1997	Nanogen, Inc.		
	B21	WO 97/13870	04/1997	Heller		
	B22	WO 97/45559	12/1997	Cornell Research Foundation		
	B23	WO 98/04746	02/1998	Mount Sinai School of Medicine of CUNY		
	B24	WO 98/08092	02/1998	Smith Kline Beecham Corp.		
	B25	WO 98/29736	07/1998	Genometrix Incorporated		
	B26	WO 98/46797	10/1998	Immunological Associates of Denver		
	B27	WO 99/00663	01/1999	California Institute of Technology		
	B28	WO 99/05320	02/1999	Rapigene, Inc.		
	B29	WO 99/09394	02/1999	Alexion Pharmaceuticals, Inc.		
↓	B30	WO 99/28505	06/1999	Curagen Corp.		

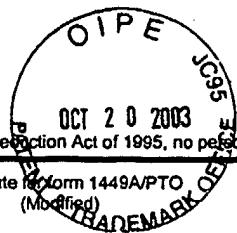
Examiner Signature	Askin Marschel	Date Considered	1-9-04
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Substitute Form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				C mplete if Known	
				Application Number	09/189,543
				Filing Date	November 10, 1998
				First Named Inventor	Che , M.S.
				Group Art Unit	1631
				Examiner Name	Marschel, A.
Sheet	9	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1 ⁶
AM	B31	WO 99/34931	07/1999	Cartesian Technology, Inc.		
	B32	WO 99/39001	08/1999	Amersham Pharmacia Biotech AB		
	B33	WO 99/53087	10/1999	Europäisches Laboratorium für Molekularbiologie (EMBL)		
	B34	WO 00/26411A1	05/2000	Lynx Therapeutics		
	B35	WO 00/34299A1	06/2000	Biochip Technologies GMBH		
	B36	WO 00/47767	08/2000	Astrazeneca UK Limited.		
	B37	WO 00/71992	11/2000	Illumina Inc.		
	B38	WO 01/12862	02/2001	Illumina, Inc.		
	B39	WO 01/18524	03/2001	Illumina, Inc.		
	B40	WO 01/41918	06/2001	Illumina, Inc.		
	B41	WO 01/46675	06/2001	Illumina, Inc.		
	B42	WO 01/57268	08/2001	Illumina Inc.		
	B43	WO 01/57269	08/2001	Illumina Inc.		
	B44	WO 01/59432	08/2001	Illumina Inc.		
	B45	WO 01/61043	08/2001	Illumina Inc.		
	B46	WO 02/00336	01/2002	Illumina Inc.		
	B47	WO 02/099982	12/2002	Illumina Inc.		
	B48	WO 02/12897	02/2002	Illumina Inc.		
↓	B49	WO 02/16649	02/2002	Illumina Inc.		

Examiner Signature	Adam Marschel	Date Considered	1-9-04
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**INFORMATION DISCLOSURE
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Sheet

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Complete if Known

Application Number	09/189,543
Filing Date	November 10, 1998
First Named Inventor	Che, M.S.
Group Art Unit	1631
Examiner Name	Marschel, A.

Attorney Docket Number A-66828-1/RMS/DCF/KJC

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AM	B50	WO 02/21128	03/2002	Illumina Inc.		
	B51	WO 02/101358	12/2002	Illumina Inc.		
	B52	WO 03/002979	12/2002	Illumina Inc.		
↓	B53	WO 03/006677	01/2003	Illumina Inc		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
AM	C1	Angel, S., "Optrodes: Chemically Selective Fiber-Optic Sensors," Spectroscopy, 2(4):38-47 (1987)	
	C2	Baner et al., "Signal amplification of padlock probes by rolling circle replication," Nucleic Acids Research, 26(22): 5073-5078 (1998).	
	C3	Barnard et al., "Fiber-Optic Organic Vapor Sensor," Environ. Sci. Technol., 25(7): 1301-1304 (1991)	
	C4	Ben-Dor, A., et al., "Universal DNA Tag Systems: A Combinatorial Design Scheme." J. Compu. Biol. 7(3/4): 503-519 (2000)	
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↓	C12	Danielson et al., "A Combinatorial Approach to the Discovery and Optimization of Luminescent Materials," Nature, 389:944-948 (1997).	

Examiner Signature	AM Aldin Marschel	Date Considered	1-9-04
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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AM	C13	DeForest, W.S., "Photoresist Materials and Processes," McGraw-Hill Book Company, New York. 89101 (1975)	
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	C22	Freeman, T. et al., "Oxygen Probe Based on Tetrakis(alkylamino)ethylene Chemiluminescence," Anal. Chem., 53:98102 (1981)	
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✓	C28	Hirschhorn, J.N., et al., "SBE-TAGS: An Array-Based Method for Efficient Single-Nucleotide Polymorphism Genotyping." PNAS 97(22): 12164-12169 (2000)	

Examiner Signature	<i>Adam Marschel</i>	Date Considered	1-9-04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/189,543		
		Filing Date	November 10, 1998		
		First Named Inventor	Chee, M.S.		
		Group Art Unit	1631		
		Examiner Name	Marschel, A.		
Sheet	12	of	15	Attorney Docket Number	A-66828-1/RMS/DCF/KJC

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
AM	C29	Hogan, B. et al., "Single-cell Analysis at the Level of a Single Human Erythrocyte," Trends in Analytical Chemistry 12(1):4-9 (1993)	
	C30	Hsuih, T. et al., "Novel, Ligation-Dependent PCR Assay for Detection of Hepatitis C Virus in Serum," Journal of Clinical Microbiology, Mar. 1996, 34(3): 501-507 (1996)	
	C31	Huang, L. et al., "Exploring Single-cell Dynamics Using Chemically-modified Microelectrodes," Trends in Analytical Chemistry 14(4):158-164 (1995)	
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	C40	Lin, Z. et al., "Multiplex genotype determination at a large number of gene loci," Proc. Natl. Acad. Sci. USA, 93: 2582-2587, Mar. 1996	
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	C42	Lizardi et al., "Mutation detection and single-molecule counting using isothermal rolling-circle amplification," Nature Genetics, 19: 225-232 (July 1998).	
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C45	Lundstrom, I. et al., "Artificial 'olfactory' images from a chemical sensor using a light-impulse technique," Nature, 352:47-50 (1991).		

Examiner Signature	<i>Ardin Marschel</i>	Date Considered	1-9-04
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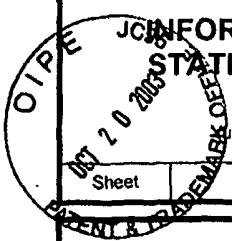
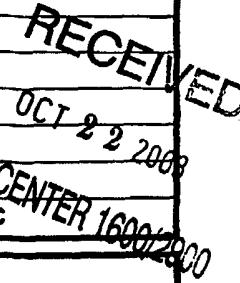
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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AM	C46	Luong, J. et al., "Fluorescence Sensors for Monitoring Bioprocesses," Practical Fluoro, ed. G.G. Guilbault, 2nd Ed., Marcel Dekker, 775-793 (New York 1990)	
	C47	McConnell, et al., "The Cytosensor Microphysiometer: Biological Applications of Silicon Technology," Science 257:1906-1912 (September 1992)	
	C48	Metzker, M. et al., "Termination of DNA synthesis by novel 3'-modified-deoxyribonucleoside 5'-triphosphates," Nucleic Acids Research, 22(20):4259-4267 (1994)	
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Examiner Signature	<i>Andrea Marschel</i>	Date Considered	1-9-04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/189,543
Sheet	14	of	15	Filing Date	November 10, 1998
				First Named Inventor	Chee, M.S.
				Group Art Unit	1631
				Examiner Name	Marschel, A.
				Attorney Docket Number	A-66828-1/RMS/DCF/KJC

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
AM	C64	Rosenzweig, Z. et al., "Analytical properties of miniaturized oxygen and glucose fiber optic sensors," Sensors and Actuators, B 35-36, 475-483 (1996)	
	C65	Saari et al., "pH Sensor Based on Immobilized Fluoresceinamine," Anal. Chem., 54:821-823 (1982)	
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Examiner Signature	<i>Andrea Marschel</i>	Date Considered	1-9-04
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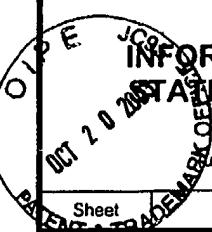
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AM	C82	Wong, K. et al., "Simultaneous Monitoring of Glutathione and Major Proteins In Single Erythrocytes," Mikrochim. Acta. 120:321-327 (1995)	
	C83	Xiang, X. et al., "A Combinatorial Approach to Materials Discovery," Science, 268:1738-1740 (1995).	
	C84	Yeung, E.S. "Chemical Analyses of Single human Erythrocytes," Acc. Chem. Res. 27:409-414 (1994)	
	C85	Zare, R.N., "Making a Biosensor from a Cell and a Fluorescent Dye," Biophotonics International, 17 (March/April 1995)	
	C86	Zellers, E. et al., "Optimal Coating Selection for the Analysis of Organic Mixtures with Polymer-Coated Surface Acoustic Wave Sensor Arrays," Analytical Chemistry . 67(6): 1092-1106 (1995)	
	C87	Zhang et al., "A Combinatorial Method for the Solid Phase Synthesis of Alpha-Amino Phosphates and Phosphonic Acids," Trtahedron Letter, 37(31): 5457-5460 (1996).	
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